

FIG. 1A

Ground Squirrel	mylfhlclvf acvpcptvqa sklclgwld	
		1
HbC AYW	mdidpykefg atvellsflp sdfpsvrdl ldtasalyre	
HbC ADW	mdidpykefg atvellsflp sdfpsvrdl ldtasalyre	
HbC ADW2	mdidpykefg atvellsflp sdfpsvrdl ldtasalyre	
HbC ADYW	mdidpykefg atvellsflp sdfpsvrdl ldtasalyrd	
Woodchuck	mdidpykefg ssyqlnflp ldffpdlnal vdtatalyee	
Ground Squirrel	mdidpykefg ssyqlnflp ldffpdlnal vdtasalyee	
		41
HbC AYW	alespehcsp hhtalrqail cwgelmtlat wvgvnledpa	
HbC ADW	alespehcsp hhtalrqail cwgelmtlat wvgnnlqdp	
HbC ADW2	alespehcsp hhtalrqail cwgelmtlat wvgnnledpa	
HbC ADYW	alespehcsp hhtalrqail cwgelmtlat wvgtnledpa	
Woodchuck	eltgrehcsp hhtairgalv cwdeltklia wmsnitseq	
Ground Squirrel	eltgrehcsp hhtairgalv cweeltrlit wmsentteev	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

FIG. 1B

81

HBC AYW	srdlvvsyvn	tnmg1kfrq1	lwfhiscltf	gretvieylv
HBC ADW	srdlvvnyvn	tnmg1kirq1	lwfhiscltf	gretvleylv
HBC ADW2	srdlvvnyvn	tnvg1kirq1	lwfhiscltf	gretvleylv
HBC ADYW	srdlvvsyvn	tnvg1kfrq1	lwfhiscltf	gretvleylv
Woodchuck	vrtiivnhvn	dtwglkvrqs	lwfhlsc1tf	gqhtvqeflv
Ground Squirrel	rriiivdhvnn	twglkvrtq1	wfhlsc1tfq	qhtvqeflvs

121

HBC AYW	sfgvwirtpp	ayrppnapil	stlpettvvr	rrgrsprrrt
HBC ADW	sfgvwirtpp	ayrppnapil	stlpettvvr	rrdgrsprrr
HBC ADW2	sfgvwirtpp	ayrppnapil	stlpettvvr	rrdgrsprrr
HBC ADYW	sfgvwirtpp	ayrppnapil	stlpettvvr	rrgrsprrrt
Woodchuck	sfgvwirtpa	pyrppnapil	stlpehtvir	rrggarasrs
Ground Squirrel	fgvwirtpap	yrppnapils	tlpehtvirr	rggsraarsp

HBC AYW	psprrrrsqs	prrrrsqsre	sqc
HBC ADW	rtpsprrrrs	qsprrrrrsqs	resqc
HBC ADW2	rtpsprrrps	qsprrrrrsqs	resqc
HBC ADYW	psprrrrsqs	prrrrsqsre	sqc
Woodchuck	prrrtpsprr	rrsqsprrrr	sqc
Ground Squirrel	rrrrtpsprrr	rsqsprrrrs	qspasnc

FIG. 2

HindIII

pKK223-3

TTCACACAGGAAACAGAATTCCCGGGGATCCGTCGACCTGCAGCCAAGCTT

SEQ ID NO:180

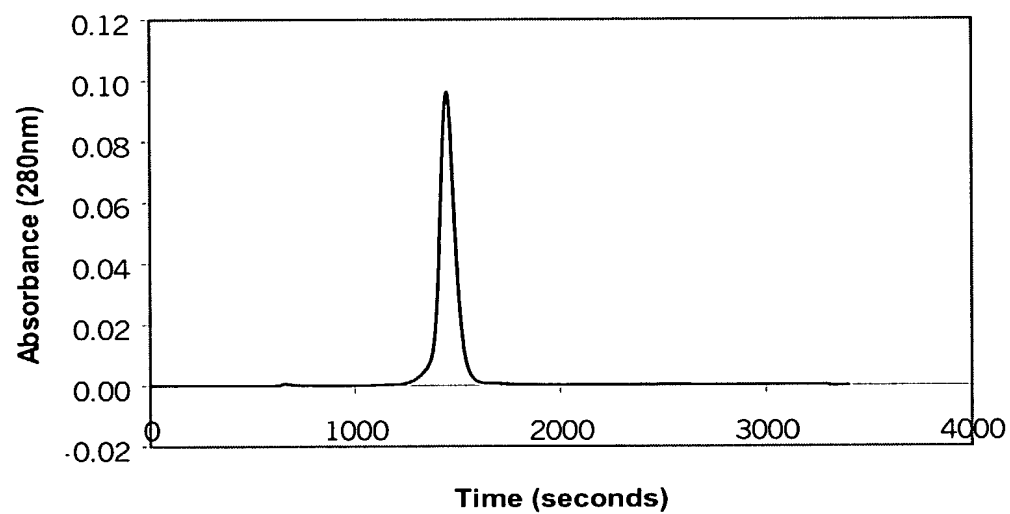
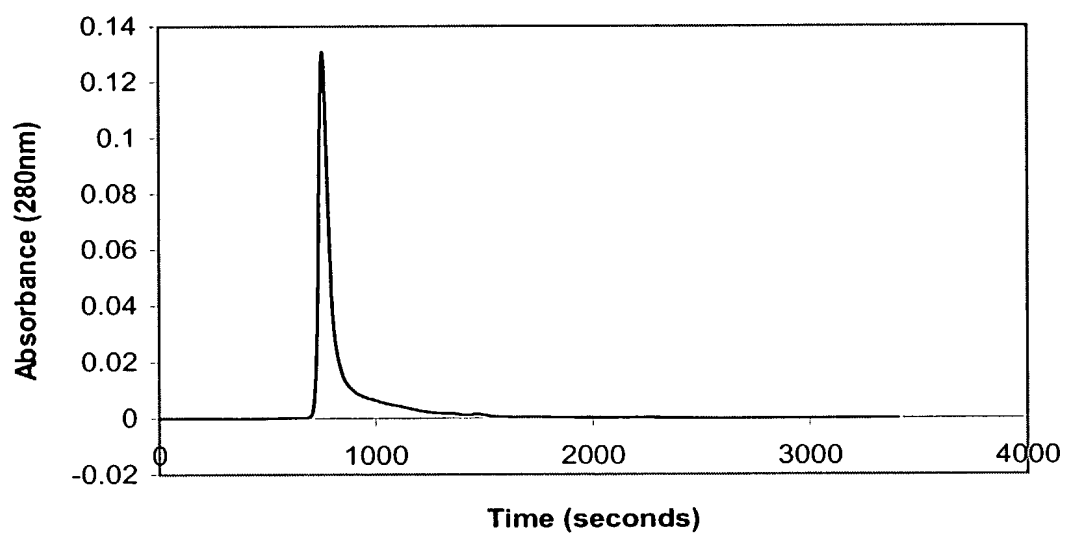
pKK223-3N

---AAGCTT

TTCACATAAGGAGGAAAAAAccatggGATCCG-----

NcoI

SEQ ID NO:181

Fig. 3**Fig. 4**

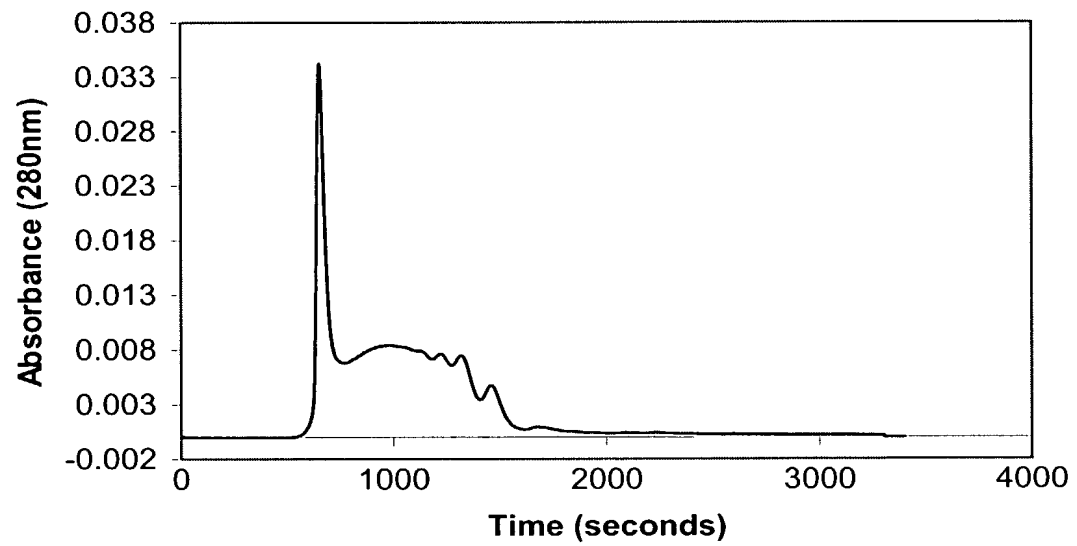


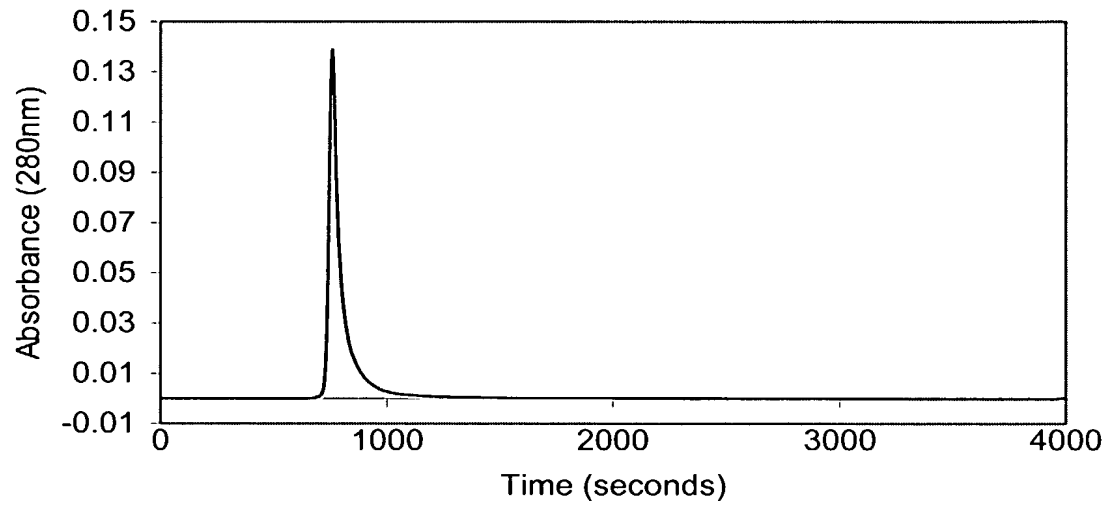
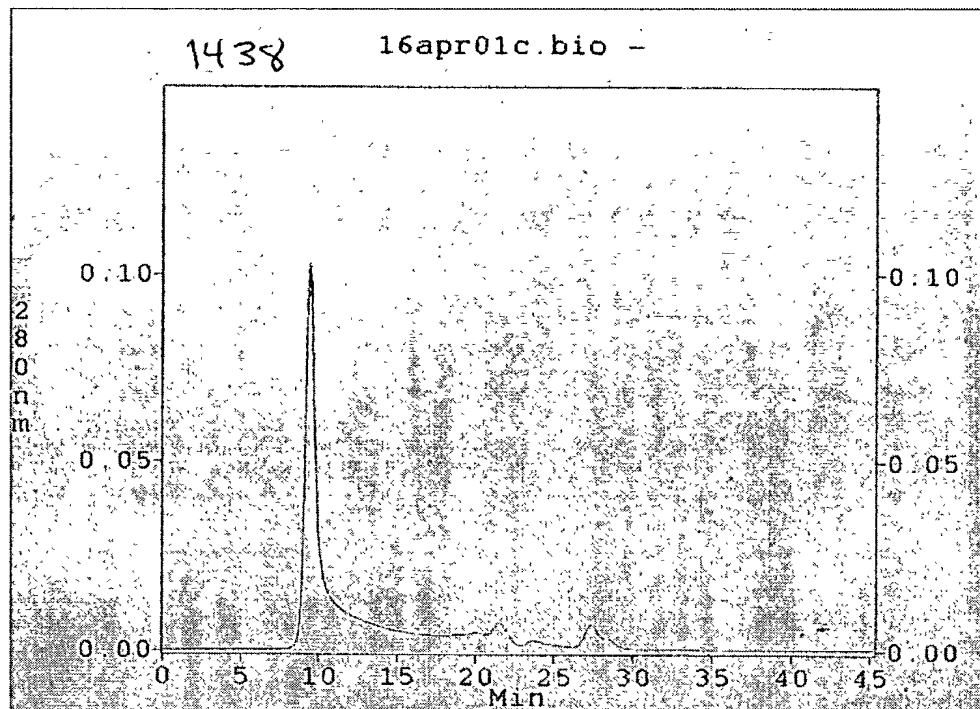
Fig. 7**Fig. 8**

Fig. 9

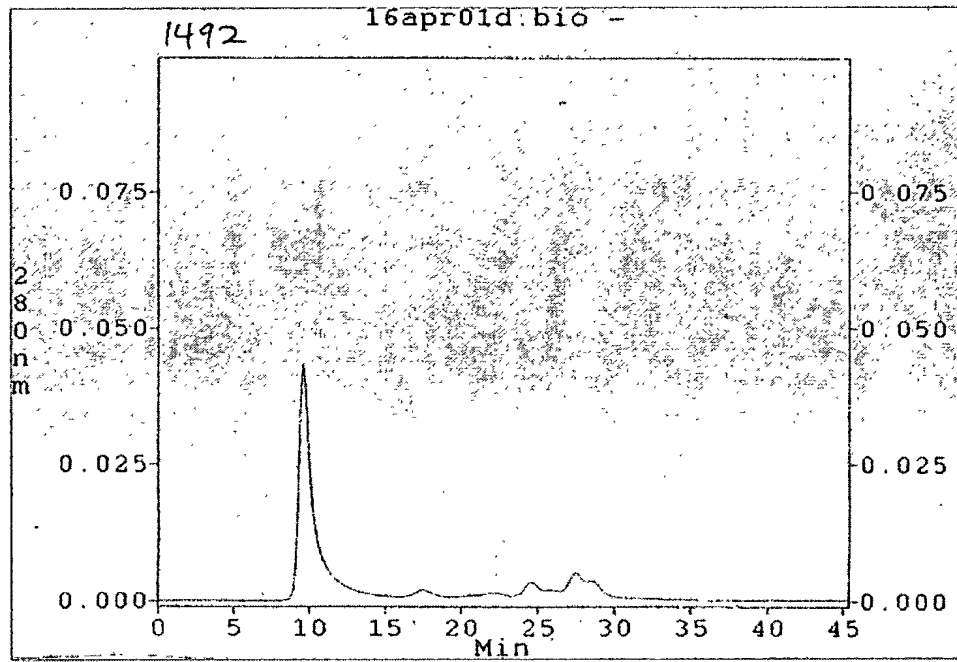


Fig. 10

